

CLAIMS

WHAT IS CLAIMED IS:

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All
- 009270-6655960
1. A stator for an automotive alternator characterized in that,
in an automotive alternator comprising:
said stator comprising, a stator core in which a plurality of slots extending in axial directions are formed at an inner circumference thereof and two sets of three-phase stator coils which are fitted into said slots;
and a rotor provided inside the stator so as to be capable of rotating, comprising, a rotor coil for flowing a current to generate magnetic flux, and a pole core for housing the rotor coil and forming a plurality of claw-shaped magnetic poles in accordance with magnetic flux, and,
2 slots are provided for each phase of said stator coils and each magnetic pole and the total number of the slots is 72 or more,
said stator core is such that a plurality of sheet-shaped magnetic members with a plurality of teeth patterning said slots at one side of a yoke are laminated, said stator coils are disposed in said slots, and said stator core is rounded such that said stator coils become an inner side thereof and both end surfaces thereof are contacted to connect said stator core in an annular shape.
 2. A stator for an automotive alternator according to Claim 1 characterized in that,
a mutual interval in the circumferential direction between a center of air gaps of adjacently formed slot opening portions is formed to be uneven.
 3. A stator for an automotive alternator according to Claim 2 characterized in that,
said interval of slot opening portions is a repeated electrical angle of α degrees and $(60 - \alpha)$ degrees, and said α degrees is in a range of from 16 to 29 degrees.
 4. A stator for an automotive alternator according to Claim 2 characterized in that,

said interval of slot opening portions is a repeated electrical angle of α degrees and $(60 - \alpha)$ degrees, and said α degrees is in a range of from 22 to 24 degrees.

5. A stator for an automotive alternator according to Claim 2 characterized in that, said interval of slot opening portions is a repeated electrical angle of 24 degrees and 36 degrees.

6. ~~A stator for an automotive alternator according to Claims 1 characterized in that, projections extending in a circumferential direction are formed on tips said teeth which partition said slots, and a mutual interval in a circumferential direction between a center of air gaps of adjacent slot opening portions is varied by projecting lengths of said projections.~~

7. ~~A stator for an automotive alternator according to Claims 1 characterized in that, widths of said teeth which partition said slots are uneven.~~

8. ~~A stator for an automotive alternator according to Claim 7 characterized in that, contact surfaces of said stator core connected as an annular-shape are formed by dividing a wide tooth among said teeth of uneven widths in a circumferential direction with a substantially orthogonal surface.~~

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